



Township of Muskoka Lakes

Request for Tender

T-2023-31

**Supply and Deliver
One (1) New PUMPER FIRE
APPARATUS – 4 DOOR**

TOWNSHIP OF MUSKOKA LAKES

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SECTION A

TENDER

TOWNSHIP OF MUSKOKA LAKES

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TOWNSHIP OF MUSKOKA LAKES

TENDER

PART I TENDER CALL

The Corporation of the Township of Muskoka Lakes (after this called the "Owner") invites Tenders for:

Contract Number: T-2023-31

Described as Supply and Deliver

One (1) New PUMPER FIRE APPARATUS

- 4 DOOR

Tenders shall be addressed and delivered to: Fire Chief – Ryan Murrell
TENDER #T-2023-31
Muskoka Lakes Fire Department
P.O. Box 129
1 Bailey Street
Port Carling, ON
P0B 1J0

Tenders shall be received until: 2:00 p.m. Wednesday April 26, 2023

Tenders received by the time and date specified above shall be opened and read in public as soon as possible after that time. Public reading of a Tender does not imply any decision by the Owner as to whether a Tender is or is not irregular.

PART II TENDER CONDITIONS

TC-1 Completion and Submissions of Tenders

- 1.1 The Tenderer shall complete all documents pertaining to this Contract in ink or in type.
- 1.2 If the Tenderer is a corporation, an authorized officer of the corporation shall sign and seal the Form of Tender.
- 1.3 If the Tenderer is a partnership, a minimum of two partners shall sign the Form of Tender and signatures shall be witnessed.
- 1.4 If the Tenderer is a sole proprietorship, the sole proprietor shall sign the Form of Tender and the signature shall be witnessed.
- 1.5 The Tenderer shall submit its Tender by the date and time specified in Part I of the Tender.
- 1.6 The Tenderer shall submit to the Owner:
 - a) Part III – Form of Tender;
- 1.7 The Tenderer shall submit the Tender in a sealed and opaque envelope properly identified with the contract number, contract description, name of Tenderer, due date and time.
- 1.8 Tender irregularities will be dealt with in accordance with the Township of Muskoka Lakes Purchasing By-Law 2004-161, as amended.
- 1.9 All inquiries/questions regarding this Tender are to be sent via email to Ryan Murrell, Fire Chief at rmurrell@muskokalakes.ca. Inquiries must be received no later than five (5) Business Days prior to the tender submission deadline specified in Part I of the Tender or as amended by addendum. Unless otherwise addressed through an addendum, all responses to bid inquiries shall not be incorporated as part of the Contract or in any way change the Contract.

TC-2 Basis of Award

- 2.1 The Township intends to award the contract to bidder that best meets the operational needs of the Township and represents the best value for the Township. This will be determined through an examination of the conformance to specifications balanced with Total Tender Price. As such, lowest tender price may not necessarily be accepted.

TC-3 Addenda

- 3.1 Addenda will be posted on the Township website (www.muskokalakes.ca) for viewing and shall be located in the same area of the webpage that the Tender documents are downloaded from.
- 3.2 The Township will not notify Tenderers of addendums and it is the responsibility of the Tenderer to monitor the webpage and retrieve posted addendums prior to submitting their bid.
- 3.3 The Tenderer shall ensure that all addenda that are issued are acknowledged and listed under Section FT-1 of the Tender.
- 3.4 The deadline for the posting of addenda is no later than three (3) Business Days prior to tender submission deadline as specified in Part I of the Tender or as amended by addendum.

TC-4 Irregular Tenders

- 4.1 The Owner shall be the sole judge of whether or not a Tender is irregular.

TC-5 Unbalanced Tenders

- 5.1 The Tenderer shall not submit an unbalanced Tender.
- 5.2 The Owner shall have the right to:
- a) deem a Tender to be unbalanced; and
 - b) reject a Tender which it deems to be unbalanced.

TC-6 Collusion

- 6.1 The Tenderer shall not engage in collusion of any sort and, in particular, shall:
- a) ensure that no person or other legal entity, other than the Tenderer, has any undisclosed interest in the Tenderer's Tender; and
 - b) prepare its Tender without any knowledge of, comparison of figures with or arrangement with any other person or firm preparing a Tender for the same work.

TC-7 Right to Accept or Reject Tenders

- 7.1 Notwithstanding any other provision in this Contract, the Owner shall have the right to:
- a) accept any Tender;
 - b) reject any Tender; and
 - c) reject all Tenders.

7.2 Without limiting the generality of Section TC-7.1, the Owner shall have the right to:
a) accept an irregular Tender;
b) accept a Tender which is not the lowest Tender; and
c) reject a Tender even if it is the only Tender received by the Owner.

7.3 Acceptance of the Tender shall occur at the time the Owner awards the Tender and not necessarily at the time the award is communicated to the successful Tenderer.

TC-8 Contract Documents

8.1 The Tenderer shall obtain and review all Contract Documents as listed in the Form of Tender including all Addenda issued by the Owner pertaining to this Contract.

TC-9 Errors, Omissions and Discrepancies in the Contract Documents

9.1 If the Tenderer finds any errors or omissions in or discrepancies among the Contract Documents, it shall immediately notify the Owner at the address specified in Part I of the Tender.

9.2 No oral explanation or interpretation by any person shall modify any of the Contract Documents.

TC-10 Irrevocability of Offer

10.1 The Tenderer shall not revoke its offer until after the expiration of sixty (60) days after the opening of Tenders by the Owner.

TC-11 Successful Tenderer - WSIB Certificate of Clearance

11.1 The successful Tenderer shall provide the Owner with a valid Workplace Safety & Insurance Board Certificate of Clearance to the satisfaction of the Owner.

TC-12 Successful Tenderer - Execution of Form of Agreement

12.1 The successful Tenderer shall execute in accordance with TC-1, in triplicate, the Form of Agreement provided in the Contract Documents.

12.2 The successful Tenderer shall forward the executed Form of Agreement to the Owner.

TC-13 Successful Tenderer - Time for Completion

13.1 The successful Tenderer shall complete the work by December 1, 2024.

13.2 The successful Tenderer acknowledges that time shall be deemed to be

of the essence of the Contract. For the Tenderer's purpose of establishing a schedule for

the Work, it is anticipated that contract award will be complete within 30 calendar days after the opening of tenders by the Owner. Upon notice of award, the successful Tenderer will be required to complete submissions to the Owner as per TC-14.1. Upon receipt of all required submissions from the successful Tenderer, the Owner will return an executed Form of Agreement and a Purchase Order to the Tenderer within 10 Business Days.

- 13.3 Milestone dates associated with the Contract will be adjusted, when possible, due to any delays to the anticipated award schedule caused by the Owner during the contract award and/or issuance of the authorization to commence work.

TC-14 Successful Tenderer - Submission of Documentation

- 14.1 The successful Tenderer shall submit the documentation required by Sections TC-11 and TC-12 within seven (7) calendar days of the day the Owner notifies the successful Tenderer that the documentation should be sent to the Owner.

- 14.2 If the successful Tenderer fails to comply with Section TC-14.1 the Owner may, in its sole discretion, withdraw its acceptance of the Tender and the Tenderer shall have no recourse whatsoever against the Owner.

TC-15 Successful Tenderer - Commencement of the Work

- 15.1 The successful Tenderer shall not commence the Work until it has received authority to proceed with the work from the Owner as well as the fully executed Form of Agreement signed by both parties (Tenderer and Owner) and a Purchase Order issued by the Owner.

TC-16 Successful Tenderer - Vendor Performance Management Notice

- 16.1 The contract resulting from this Tender may be subject to performance evaluation conducted by the Owner. The Owner reserves the right to consider the results of this performance evaluation in the award of future contracts and/or in the selection of vendors for future work. Performance evaluation will be managed in accordance with Township policy HS-007-POL, "Contractor Activities and Control Policy" and Township Procurement Policy By-law 2004-161, as amended.

TOWNSHIP OF MUSKOKA LAKES
PART III - FORM OF TENDER

Tender
by:

NAME OF TENDERER

ADDRESS OF TENDERER

TELEPHONE NUMBER

FAX NUMBER

E-MAIL

after this called the "Tenderer".

FT-1 Contract Documents

1.1 The Contract Documents for Contract Number **T-2023-31** are:

- a) Tender
 - i) Part I - Tender Call
 - ii) Part II - Tender Conditions
 - iii) Part III - Form of Tender
- b) Form of Agreement
- c) Special Provisions
- d) All Addenda issued pertaining to the Contract as acknowledged below: Addendum No. _____ dated , 20__
_____, No. of Pages _____
Addendum No. __ dated _____, 20__, No. of Pages __
Addendum No. __ dated _____, 20__, No. of Pages __
Addendum No. __ dated _____, 20__, No. of Pages __

FT-2 Schedule of Specifications

2.1 The Schedule of Specifications attached is Section FT-2.5 of the Tender. The Schedule of Specifications shall form an integral part of the tender submission and must be completed in its entirety and returned with the tender submission.

2.2 All equipment shall conform to the latest laws, rules and regulations in the

Province of Ontario. The vehicle shall meet or surpass all relevant requirements of the

Canadian Motor Vehicle Safety Standards at the date of vehicle and equipment manufacture.

- 2.3 Only standard factory approved makes and models shall be included in this tender. The vehicle shall be equipped with all standard features for the quoted make and model plus anything outlined in this specification if not standard. Vehicles shall be supplied only with the standard or advertised optional engine for the vehicle being bid. Vehicles with non-advertised or altered engine horsepower settings will not be accepted. Only currently advertised and factory approved engine and drive train combinations are acceptable. Only the major details of the vehicle are listed. It is the supplier's responsibility to deliver a fully equipped vehicle with compatible components to provide dependable efficient service. Where minimums are given, the vehicle must meet or exceed the capacity, size, or performance specified. All components of the vehicle must be new including any related attachments.
- 2.4 For each of the specific requirements, please indicate if the equipment supplied conforms to the Township of Muskoka Lakes actual specification by circling "yes" or "no" in each column as provided. If prompted, please specify the details of the vehicle in the space provided. For any specific requirements that do not conform to the specifications provided, please circle "no" in the column provided and indicate the manufacturer's actual specification in the space provided on the Specification Sheet. For any specific requirements that do not conform to the specifications provided, please provide additional supporting information on a separate sheet of paper and/or supply product specification information and pamphlets supporting the deviation for review. If a particular manufacturer does not offer a model or option that meets a particular specification in this tender, deviation will be considered at the discretion of the Director of Public Works. The Township reserves the right to review all stated deviations to determine acceptance or non-acceptance as best meets the needs of the Township, without penalty.

FT-2.5 SCHEDULE OF SPECIFICATIONS

Item 1 – PUMPER FIRE APPARATUS - 4 DOOR				
1.	VEHICLE INFORMATION			
	Specify year, make, model and estimated date of delivery of the vehicle being tendered. Must be a new vehicle in model year that it is delivered.	YEAR: _____	MAKE: _____	MODEL: _____
		DELIVERY DATE: _____		
2.	COMMERCIAL MOTOR VEHICLE SAFETY ACT COMPLIANCE:			
	Vehicles shall meet or surpass the mandatory requirements of the Canada Motor Vehicle Safety Act and its Regulations in effect on the date of manufacture and the vehicle must bear the National Safety Mark.	YES	NO	
3.	MINIMUM VEHICLE SPECIFICATIONS:			
	FREIGHTLINER M2 106 CONVENTIONAL CHASSIS	YES	NO	SPECIFY GVWR:
	SET BACK AXLE - TRUCK	YES	NO	SPECIFY:
	LH PRIMARY STEERING LOCATION	YES	NO	SPECIFY:
	DOMICILED, CANADA (OTHER THAN QUEBEC)	YES	NO	SPECIFY:

	MEDIUM TRUCK WARRANTY	YES	NO	SPECIFY:
	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs	YES	NO	SPECIFY:
	EXPECTED REAR DRIVE AXLE(S) LOAD : 27000.0 lbs	YES	NO	SPECIFY:
	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 39000.0 lbs	YES	NO	SPECIFY:
	FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP	YES	NO	SPECIFY:
	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME 32 INCHES	YES	NO	SPECIFY:
	DD8 7.7L 6 CYL DUAL STAGE 350 HP @ 2200 RPM, 2600 GOV RPM, 1050 LB-FT @ 1200 RPM	YES	NO	SPECIFY:
	67 MPH ROAD SPEED LIMIT	YES	NO	SPECIFY:
	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT	YES	NO	SPECIFY:
	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED	YES	NO	SPECIFY:
	PTO MODE ENGINE RPM LIMIT - 1400 RPM	YES	NO	SPECIFY:
	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED	YES	NO	SPECIFY:
	PTO RPM WITH CRUISE RESUME SWITCH - 900 RPM	YES	NO	SPECIFY:
	PTO MODE CANCEL VEHICLE SPEED - 5 MPH	YES	NO	SPECIFY:
	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND	YES	NO	SPECIFY:
	TWO REMOTE PTO SPEEDS	YES	NO	SPECIFY:
	PTO SPEED 1 SETTING - 1100 RPM	YES	NO	SPECIFY:
	PTO SPEED 2 SETTING - 1100 RPM	YES	NO	SPECIFY:

	2010 EPA/CARB/GHG21 CONFIGURATION	YES	NO	SPECIFY:
	NO 2008 CARB EMISSION CERTIFICATION	YES	NO	SPECIFY:
	STANDARD OIL PAN	YES	NO	SPECIFY:
	ENGINE MOUNTED OIL CHECK AND FILL	YES	NO	SPECIFY:
	SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER	YES	NO	SPECIFY:
	DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH REMOTE BATTERY VOLTAGE SENSE	YES	NO	SPECIFY
	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	YES	NO	SPECIFY
	BATTERY BOX FRAME MOUNTED	YES	NO	SPECIFY
	STANDARD BATTERY JUMPERS	YES	NO	SPECIFY
	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB	YES	NO	SPECIFY
	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN	YES	NO	SPECIFY
	NON-POLISHED BATTERY BOX COVER	YES	NO	SPECIFY
	CAB AUXILIARY POWER CABLE	YES	NO	SPECIFY
	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTBOARD DRIVER SEAT	YES	NO	SPECIFY
	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	YES	NO	SPECIFY
	WABCO 20.0 CFM SINGLE CYLINDER AIR COMPRESSOR	YES	NO	SPECIFY

	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR	YES	NO	SPECIFY
	AIR COMPRESSOR DISCHARGE LINE	YES	NO	SPECIFY
	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING	YES	NO	SPECIFY
	DETROIT MD COMPRESSION BRAKE WITH ON/OFF SWITCH	YES	NO	SPECIFY
	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	YES	NO	SPECIFY
	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH	YES	NO	SPECIFY
	STANDARD EXHAUST SYSTEM LENGTH	YES	NO	SPECIFY
	RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES	YES	NO	SPECIFY
	6 GALLON DIESEL EXHAUST FLUID TANK	YES	NO	SPECIFY
	100 PERCENT DIESEL EXHAUST FLUID FILL	YES	NO	SPECIFY
	LH UNDER CAB DIESEL EXHAUST FLUID TANK LOCATION	YES	NO	SPECIFY
	DIESEL EXHAUST FLUID PUMP MOUNTED AFT OF DIESEL EXHAUST FLUID TANK	YES	NO	SPECIFY
	STANDARD DIESEL EXHAUST FLUID TANK CAP	YES	NO	SPECIFY
	AIR POWERED ON/OFF ENGINE FAN CLUTCH	YES	NO	SPECIFY
	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED	YES	NO	SPECIFY

	DETROIT ENGINE MOUNTED FUEL/WATER SEPARATOR WITH WATER-IN-FUEL SENSOR AND ESOC	YES	NO	SPECIFY
	FULL FLOW OIL FILTER	YES	NO	SPECIFY
	900 SQUARE INCH ALUMINUM RADIATOR	YES	NO	SPECIFY
	ANTIFREEZE TO -60F, OAT (NITRITE AND SILCATE FREE) EXTENDED LIFE COOLANT	YES	NO	SPECIFY
	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT	YES	NO	SPECIFY
	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES	YES	NO	SPECIFY
	AUXILIARY ENGINE COOLING USING WATER FROM FIRE PUMP	YES	NO	SPECIFY
	LOWER RADIATOR GUARD	YES	NO	SPECIFY
	ALUMINUM FLYWHEEL HOUSING	YES	NO	SPECIFY
	DELCO 12V 35MT STARTER WITH INTEGRATED MAGNETIC SWITCH AND SOLENOID	YES	NO	SPECIFY
	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION	YES	NO	SPECIFY
	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS	YES	NO	SPECIFY
	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES	YES	NO	SPECIFY
	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY	YES	NO	SPECIFY
	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY	YES	NO	SPECIFY

	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE	YES	NO	SPECIFY
	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED	YES	NO	SPECIFY
	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES	YES	NO	SPECIFY
	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND NO BLUNT CUTS, AT BACK OF CAB ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR MOUNTED BACK OF CAB	YES	NO	SPECIFY
	(2) CUSTOMER INSTALLED CHELSEA 280 SERIES PTO'S	YES	NO	SPECIFY
	PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION	YES	NO	SPECIFY

	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN	YES	NO	SPECIFY
	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED	YES	NO	SPECIFY
	TRANSMISSION PROGNOSTICS - ENABLED 2013	YES	NO	SPECIFY
	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	YES	NO	SPECIFY
	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK	YES	NO	SPECIFY
	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)	YES	NO	SPECIFY
	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE	YES	NO	SPECIFY
	MERITOR 16.5X5 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	YES	NO	SPECIFY
	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING	YES	NO	SPECIFY
	CAST IRON OUTBOARD FRONT BRAKE DRUMS	YES	NO	SPECIFY
	FRONT BRAKE DUST SHIELDS	YES	NO	SPECIFY
	FRONT OIL SEALS	YES	NO	SPECIFY
	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL	YES	NO	SPECIFY
	STANDARD SPINDLE NUTS FOR ALL AXLES	YES	NO	SPECIFY
	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS	YES	NO	SPECIFY
	TRW THP-60 POWER STEERING	YES	NO	SPECIFY
	POWER STEERING PUMP	YES	NO	SPECIFY

	2 QUART SEE THROUGH POWER STEERING RESERVOIR	YES	NO	SPECIFY
	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE	YES	NO	SPECIFY
	12,000# DUAL TAPERLEAF FRONT SUSPENSION	YES	NO	SPECIFY
	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION	YES	NO	SPECIFY
	FRONT SHOCK ABSORBERS	YES	NO	SPECIFY
	RS-25-160 27,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE	YES	NO	SPECIFY
	6.14 REAR AXLE RATIO	YES	NO	SPECIFY
	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING	YES	NO	SPECIFY
	JACKSHAFT, TEMPORARY DRIVELINE, FOR CUSTOMER FURNISHED FIRE PUMP. TEMPORARILY INSTALLED FOR SHIPPING TO CUSTOMER/TEM	YES	NO	SPECIFY
	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	YES	NO	SPECIFY
	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES	YES	NO	SPECIFY
	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING	YES	NO	SPECIFY
	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)	YES	NO	SPECIFY
	WEBB HEAVY WEIGHT CAST IRON REAR BRAKE DRUMS	YES	NO	SPECIFY
	REAR BRAKE DUST SHIELDS	YES	NO	SPECIFY
	REAR OIL SEALS	YES	NO	SPECIFY

	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS	YES	NO	SPECIFY
	HALDEX AUTOMATIC REAR SLACK ADJUSTERS	YES	NO	SPECIFY
	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE	YES	NO	SPECIFY
	27,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR FIRE/EMERGENCY SERVICE	YES	NO	SPECIFY
	SPRING SUSPENSION - NO AXLE SPACERS	YES	NO	SPECIFY
	STANDARD AXLE SEATS IN AXLE CLAMP GROUP	YES	NO	SPECIFY
	FORE/AFT CONTROL RODS	YES	NO	SPECIFY
	AIR BRAKE PACKAGE	YES	NO	SPECIFY
	WABCO 4S/4M ABS WITH TRACTION CONTROL	YES	NO	SPECIFY
	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES	YES	NO	SPECIFY
	FIBER BRAID PARKING BRAKE HOSE	YES	NO	SPECIFY
	STANDARD BRAKE SYSTEM VALVES	YES	NO	SPECIFY
	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM	YES	NO	SPECIFY
	STD U.S. FRONT BRAKE VALVE	YES	NO	SPECIFY
	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE	YES	NO	SPECIFY
	BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER	YES	NO	SPECIFY
	AIR DRYER MOUNTED UNDER HOOD	YES	NO	SPECIFY

	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION	YES	NO	SPECIFY
	BW DV-2 AUTO DRAIN VALVE WITH HEATER ON ALL TANK(S)	YES	NO	SPECIFY
	UPGRADED CHASSIS MULTIPLEXING UNIT	YES	NO	SPECIFY
	UPGRADED BULKHEAD MULTIPLEXING UNIT	YES	NO	SPECIFY
	6250MM (246 INCH) WHEELBASE	YES	NO	SPECIFY
	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	YES	NO	SPECIFY
	1375MM (54 INCH) REAR FRAME OVERHANG	YES	NO	SPECIFY
	FRAME OVERHANG RANGE: 51 INCH TO 60 INCH	YES	NO	SPECIFY
	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 133.27 in	YES	NO	SPECIFY
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 130.27 in	YES	NO	SPECIFY
	CALC'D FRAME LENGTH - OVERALL : 339.14 in	YES	NO	SPECIFY
	CALCULATED FRAME SPACE LH SIDE : 118.47 in	YES	NO	SPECIFY
	CALCULATED FRAME SPACE RH SIDE : 118.27 in	YES	NO	SPECIFY
	SQUARE END OF FRAME	YES	NO	SPECIFY
	FRONT CLOSING CROSSMEMBER	YES	NO	SPECIFY
	STANDARD WEIGHT ENGINE CROSSMEMBER	YES	NO	SPECIFY
	STANDARD CROSSMEMBER BACK OF TRANSMISSION	YES	NO	SPECIFY

	STANDARD MIDSHIP #1 CROSSMEMBER(S)	YES	NO	SPECIFY
	STANDARD REARMOST CROSSMEMBER	YES	NO	SPECIFY
	STANDARD SUSPENSION CROSSMEMBER	YES	NO	SPECIFY
	THREE-PIECE 14 INCH CHROME STEEL BUMPER WITH COLLAPSIBLE ENDS AND LH WING CUTOUT FOR FEDERAL MS100/ES100/ES100C SPEAKER	YES	NO	SPECIFY
	FRONT TOW HOOKS - FRAME MOUNTED	YES	NO	SPECIFY
	BUMPER MOUNTING FOR SINGLE LICENSE PLATE	YES	NO	SPECIFY
	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS	YES	NO	SPECIFY
	GRADE 8 THREADED HEX HEADED FRAME FASTENERS	YES	NO	SPECIFY
	LEVEL FRAME RAILS (+/- 1%) WHEN CHASSIS IS LOADED TO FRONT AND REAR SUSP RATINGS AND D15-28195-000 CENTER PUNCH TO MARK CL OF REAR SUSP ON FRAME FLANGE	YES	NO	SPECIFY
	3D PARASOLID VEHICLE MODEL	YES	NO	SPECIFY
	TANK BODY 0 TO 1500 GALLONS	YES	NO	SPECIFY
	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD	YES	NO	SPECIFY
	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH	YES	NO	SPECIFY
	23 INCH DIAMETER FUEL TANK(S)	YES	NO	SPECIFY
	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS	YES	NO	SPECIFY
	FUEL TANK(S) FORWARD	YES	NO	SPECIFY

	PLAIN STEP FINISH	YES	NO	SPECIFY
	FUEL TANK CAP(S)	YES	NO	SPECIFY
	DETROIT FUEL/WATER SEPARATOR WITH BYPASS	YES	NO	SPECIFY
	EQUIFLO INBOARD FUEL SYSTEM	YES	NO	SPECIFY
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE	YES	NO	SPECIFY
	MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES	YES	NO	SPECIFY
	MICHELIN XDN2 12R22.5 16 PLY RADIAL REAR TIRES	YES	NO	SPECIFY
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS	YES	NO	SPECIFY
	CONMET PRESET PLUS PREMIUM IRON REAR HUBS	YES	NO	SPECIFY
	ACCURIDE 43644 ACCU-LITE 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS	YES	NO	SPECIFY
	ACCURIDE 43644 ACCU-LITE 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS	YES	NO	SPECIFY
	POLISHED FRONT WHEELS; INSIDE AND OUTSIDE	YES	NO	SPECIFY
	POLISHED REAR WHEELS; OUTSIDE AND INSIDE (BOTH SIDES)	YES	NO	SPECIFY
	FRONT WHEEL MOUNTING NUTS	YES	NO	SPECIFY
	REAR WHEEL MOUNTING NUTS	YES	NO	SPECIFY
	154 INCH BBC HIGH-ROOF ALUMINUM CONVENTIONAL CREW CAB	YES	NO	SPECIFY
	AIR CAB MOUNTING	YES	NO	SPECIFY
	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE	YES	NO	SPECIFY

	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT	YES	NO	SPECIFY
	HOOD MOUNTED CHROMED PLASTIC GRILLE	YES	NO	SPECIFY
	CHROME HOOD MOUNTED AIR INTAKE GRILLE	YES	NO	SPECIFY
	FIBERGLASS HOOD	YES	NO	SPECIFY
	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS	YES	NO	SPECIFY
	DUAL ELECTRIC HORNS	YES	NO	SPECIFY
	DUAL HORN SHIELDS	YES	NO	SPECIFY
	REAR LICENSE PLATE MOUNT END OF FRAME	YES	NO	SPECIFY
	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL	YES	NO	SPECIFY
	LED AERODYNAMIC MARKER LIGHTS	YES	NO	SPECIFY
	DAYTIME RUNNING LIGHTS	YES	NO	SPECIFY
	INTEGRAL STOP/TAIL/BACKUP LIGHTS	YES	NO	SPECIFY
	STANDARD FRONT TURN SIGNAL LAMPS	YES	NO	SPECIFY
	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE	YES	NO	SPECIFY
	DOOR MOUNTED MIRRORS	YES	NO	SPECIFY
	102 INCH EQUIPMENT WIDTH	YES	NO	SPECIFY
	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS	YES	NO	SPECIFY
	STANDARD SIDE/REAR REFLECTORS	YES	NO	SPECIFY

	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER	YES	NO	SPECIFY
	63X14 INCH TINTED REAR WINDOW	YES	NO	SPECIFY
	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS	YES	NO	SPECIFY
	MANUAL DOOR WINDOW REGULATORS	YES	NO	SPECIFY
	1-PIECE SOLAR GREEN GLASS WINDSHIELD	YES	NO	SPECIFY
	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED	YES	NO	SPECIFY
	OPAL GRAY CLOTH INTERIOR	YES	NO	SPECIFY
	MOLDED PLASTIC DOOR PANEL	YES	NO	SPECIFY
	MOLDED PLASTIC DOOR PANEL	YES	NO	SPECIFY
	BLACK MATS WITH SINGLE INSULATION	YES	NO	SPECIFY
	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING	YES	NO	SPECIFY
	IN DASH STORAGE BIN	YES	NO	SPECIFY
	(2) CUP HOLDERS LH AND RH DASH	YES	NO	SPECIFY
	GRAY/CHARCOAL FLAT DASH	YES	NO	SPECIFY
	HEATER, DEFROSTER AND AIR CONDITIONER	YES	NO	SPECIFY
	STANDARD HVAC DUCTING	YES	NO	SPECIFY
	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH	YES	NO	SPECIFY
	STANDARD HEATER PLUMBING	YES	NO	SPECIFY

	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR	YES	NO	SPECIFY
	BINARY CONTROL, R-134A	YES	NO	SPECIFY
	PREMIUM INSULATION	YES	NO	SPECIFY
	SOLID-STATE CIRCUIT PROTECTION AND FUSES	YES	NO	SPECIFY
	12V NEGATIVE GROUND ELECTRICAL SYSTEM	YES	NO	SPECIFY
	DOOR ACTIVATED DOME/RED MAP LIGHTS, FORWARD LH AND RH AND REAR LH, RH AND CENTER	YES	NO	SPECIFY
	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME	YES	NO	SPECIFY
	KEY QUANTITY OF 4	YES	NO	SPECIFY
	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS	YES	NO	SPECIFY
	(1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB CHARGER IN DASH	YES	NO	SPECIFY
	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR SEATS INC 911 UNIVERSAL SERIES SCBA NON SUSPENSION PASSENGER SEAT WITH UNDERSEAT STORAGE AND NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	YES	NO	SPECIFY
	SEATS INC 911 UNIVERSAL SERIES SCBA NON SUSPENSION LH, RH AND CENTER REAR PASSENGER SEATS WITH UNDER SEAT STORAGE AND NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	YES	NO	SPECIFY
	LH AND RH INTEGRAL DOOR PANEL ARMRESTS	YES	NO	SPECIFY
	VINYL WITH VINYL INSERT DRIVER SEAT	YES	NO	SPECIFY

	VINYL WITH VINYL INSERT PASSENGER SEAT	YES	NO	SPECIFY
	VINYL WITH VINYL INSERT REAR PASSENGER SEAT	YES	NO	SPECIFY
	NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS	YES	NO	SPECIFY
	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	YES	NO	SPECIFY
	4-SPOKE 18 INCH (450MM) STEERING WHEEL	YES	NO	SPECIFY
	DRIVER AND PASSENGER INTERIOR SUN VISORS	YES	NO	SPECIFY
	GRAY DRIVER INSTRUMENT PANEL	YES	NO	SPECIFY
	GRAY CENTER INSTRUMENT PANEL	YES	NO	SPECIFY
	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK	YES	NO	SPECIFY
	BLACK GAUGE BEZELS	YES	NO	SPECIFY
	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM	YES	NO	SPECIFY
	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES	YES	NO	SPECIFY
	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS	YES	NO	SPECIFY
	97 DB BACKUP ALARM	YES	NO	SPECIFY
	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL	YES	NO	SPECIFY
	IGNITION SWITCH WITH NON REMOVABLE KEY	YES	NO	SPECIFY
	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED	YES	NO	SPECIFY
	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH	YES	NO	SPECIFY

	2 INCH ELECTRIC FUEL GAUGE	YES	NO	SPECIFY
	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE	YES	NO	SPECIFY
	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB	YES	NO	SPECIFY
	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE	YES	NO	SPECIFY
	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE	YES	NO	SPECIFY
	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY	YES	NO	SPECIFY
	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS	YES	NO	SPECIFY
	ELECTRONIC STABILITY CONTROL	YES	NO	SPECIFY
	ELECTRIC ENGINE OIL PRESSURE GAUGE	YES	NO	SPECIFY
	OVERHEAD INSTRUMENT PANEL	YES	NO	SPECIFY
	NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY	YES	NO	SPECIFY
	ELECTRONIC KPH SPEEDOMETER WITH SECONDARY MPH SCALE, WITHOUT ODOMETER	YES	NO	SPECIFY
	STANDARD VEHICLE SPEED SENSOR	YES	NO	SPECIFY
	ELECTRONIC 3000 RPM TACHOMETER	YES	NO	SPECIFY
	VT-HU CONNECTIVITY PLATFORM HARDWARE	YES	NO	SPECIFY
	3 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS) FOR VT-HU CONNECTIVITY PLATFORM	YES	NO	SPECIFY
	IGNITION SWITCH CONTROLLED ENGINE STOP	YES	NO	SPECIFY

	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH	YES	NO	SPECIFY
	(2) FOOT SWITCHES: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN	YES	NO	SPECIFY
	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY	YES	NO	SPECIFY
	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY	YES	NO	SPECIFY
	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH	YES	NO	SPECIFY
	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR	YES	NO	SPECIFY
	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE	YES	NO	SPECIFY
	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS	YES	NO	SPECIFY
	PAINT: ONE SOLID COLOR	YES	NO	SPECIFY
	CAB COLOR A: 00838838EY RED ELITE EY	YES	NO	SPECIFY
	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT	YES	NO	SPECIFY
	STANDARD E COAT/UNDERCOATING	YES	NO	SPECIFY
	CANADA CMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS	YES	NO	SPECIFY
	JACKSHAFT ASSEMBLIES ARE FOR TEMPORARY USE AND SHOULD ONLY BE USED FOR SHIPPING TO THE CUSTOMER/BODY BUILDER	YES	NO	SPECIFY

	EXHAUST MODIFICATIONS The commercial chassis exhaust system shall be modified if required to meet the needs of the body mounting.	YES	NO	SPECIFY
	PERMANENT IGNITION KEY The commercial chassis ignition key shall be permanently attached to the dash.	YES	NO	SPECIFY
	COMMERCIAL CAB CONSOLE A fabricated aluminum electrical console and enclosure shall be provided to house cab mounted electrical switching devices and equipment. The console shall be located between the driver's and the officer's seating. The console shall include an angled front, flat top, and shall be made from unpainted/sanded aluminum plate. Individual switches to control electrical equipment and emergency lighting shall be installed in this area in a best fit location, with no customer input.	YES	NO	SPECIFY
	CAB DOOR REFLECTIVE Reflective material shall be installed on the interior of the 4-door commercial chassis doors. The reflective material shall be a minimum of 96 square inches, and shall be red and fluorescent yellow green.	YES	NO	SPECIFY
	BUMPER EXTENSION The commercial chassis shall be supplied with no bumper extension. No alterations shall be made.	YES	NO	SPECIFY
	AIR HORNS Air horns and activation devices shall be supplied with the commercial chassis, as per the chassis specifications	YES	NO	SPECIFY
	CHASSIS INFORMATION PLACARD There shall be a lubrication placard mounted inside the cab listing the type and grade of lubrication used in the following areas on the apparatus and chassis: Tire Pressures - Axle ratings - Paint manufacturer and colour codes - VIN - manufacturer job/work order number - Tire Pressures - Engine oil - Engine Coolant - Transmission Fluid - Power steering fluid - Steering axle oil - Drive axle oil - Air conditioning refrigerant - Air conditioning lube oil - Cab tilt fluid	YES	NO	SPECIFY

	<ul style="list-style-type: none"> - Transfer case fluid - Ladder rack fluid - Pump gear box fluid - Pump primer fluid - Generator oil - Generator coolant - Brake fluid 			
	<p>TIRE PRESSURE MANAGEMENT Six (6) G3293C-120 pop-up tire pressure caps shall be supplied for the single axle chassis (1x per tire). The tire pressure management devices shall be shipped loose, for fire department installation after delivery once the vehicle is fully loaded with equipment.</p>	YES	NO	SPECIFY
	<p>CAB STEPS The 4-door Freightliner chassis cab steps shall have 0.125" aluminum checker plate full steps and risers installed. The chassis supplied steps shall be removed and replaced with embossed checker plate. The step riser shall completely cover the fuel tank and other chassis items located under the cab. Access shall be provided to batteries, DEF fluid fills, and other vital components.</p>	YES	NO	SPECIFY
	<p>SCBA BRACKETS Four (4) ULLH 1054 Zico Load & Lock Walkaway (1054-012-000) SCBA brackets shall be added to the commercial chassis</p>	YES	NO	SPECIFY
	<p>HELMET HOLDERS No helmet holders shall be provided with the apparatus. The fire department shall be required to provide storage for fire helmets to meet ULC/NFPA requirements.</p>	YES	NO	SPECIFY
	<p>FRONT BUMPER LICENSE PLATE BRACKET The front bumper on the commercial chassis shall include a chassis supplied license plate bracket/mounting provision. No additional components shall be provided.</p>	YES	NO	SPECIFY
	<p>FRONT ALIGNMENT The chassis steering shall be aligned at a qualified alignment center prior to delivery to the fire department. Documents shall be provided with the manual stating the alignment has been completed.</p>	YES	NO	SPECIFY
	<p>SIDE MOUNT PUMP CONTROL MODULE The pump control module shall be a self-supported structure mounted independently from the body and chassis cab. The pump module frame shall be</p>	YES	NO	SPECIFY

<p>constructed entirely of 6061-T6 aluminum extrusions and 5052-H32 aluminum plate. The pump module design shall allow normal frame deflection through isolation mounts without imposing stress on the pump module structure or side running boards. The pump module support shall bolt directly to the chassis frame web. The module shall be 42" in length, and 72" across from panel to panel. 21-00-0009 (D) DEV pump mounting items</p>			
<p>PUMP COMPARTMENT TOP OVERLAY The top of the pump compartment shall be overlaid with 0.125" NFPA embossed aluminum checker plate. There shall be no upper dunnage storage well provided.</p>	YES	NO	SPECIFY
<p>PUMP MODULE PANELS The panels shall be an integral part of the pump module structure. The driver's side panels shall consist of a fixed lower panel, a hinged operator's panel and a fixed diamond plate panel above the operator's panel. The officer's side panels shall consist of a fixed lower panel, a removable lower mid panel, a hinged upper mid panel and a fixed upper diamond plate panel. The mid and lower panels shall be made from 14 gauge brushed stainless steel.</p>	YES	NO	SPECIFY
<p>OPERATOR'S GAUGE PANEL The operator gauge panel shall be located on the upper portion of the left (drivers) side main pump module. The gauge panel shall be hinged along the bottom edge and shall allow access to the components behind the panel. Cable hold-open straps shall be mounted on the gauge panel and module structure to prevent the panel from being completely detached from the pump module.</p>	YES	NO	SPECIFY
<p>SIDE MOUNT PUMP PANEL LIGHTING Illumination shall be provided for viewing controls, switches, gauges and instructional labels necessary for proper operation of the apparatus and equipment installed. The left side pump operator panel shall be illuminated by one long LED light, located under an upper light shield. The right side pump panel shall be illuminated by one long LED light, located under an upper light shield.</p>	YES	NO	SPECIFY

	There shall be a switch located on the operator's pump panel to turn the pump panel lights on or off.			
	PUMP COMPARTMENT WORK LIGHT One (1) LED light shall be installed inside the pump compartment module to illuminate the plumbing and piping components. The light shall be activated by water proof toggle switch in the pump compartment.	YES	NO	SPECIFY
	ALUMINUM CHECKERPLATE OVERLAY A bolted aluminum checker plate overlay shall be provided and installed on the front face of the pump compartment module. An aluminum overlay shall be provided and installed on the rear face of the pump compartment module.	YES	NO	SPECIFY
	RUNNING BOARDS Running boards shall be installed on each side of the pump compartment module. The running boards shall be constructed of 0.125" NFPA embossed aluminum diamond plate. Each shall be approximately 12" deep by the width of the module. The running boards shall have a 1.25" upward bend on the inside edge to act as a kick plate. The aluminum diamond plate shall meet requirements for slip resistant surfaces at the time of proposal. The running boards shall be attached to a frame mounted support structure. Each running board to have a 3" downward bend on the front face with a 1" underside return for superior strength. The overall width of the pump module from side to side at the outer edges of the running boards is 100".	YES	NO	SPECIFY
	MASTER GAUGES Class 1 4.5" gauges shall be supplied for the master intake and master discharge gauges. The master intake gauge and master discharge gauge shall be marked for a dual scale reading from -30 to 400 PSI/kPa. Each gauge shall have black and red markings on a white face, with OEM logo.	YES	NO	SPECIFY
	DISCHARGE GAUGES A Class 1 2.5" gauge shall be supplied for reading the pressure of each discharge	YES	NO	SPECIFY

<p>greater than 1.5" in diameter, unless otherwise specified. Each gauge shall be marked for reading a discharge pressure of 0-400 PSI/kPa. Each gauge shall have black and red markings on a white face, with OEM logo. 21-00-0120 Each gauge shall have chrome bezel provided.</p>			
<p>PUMP CONTROL DESCRIPTIVE LABELS The apparatus shall be descriptively tagged with colour coded labels. The labels shall be applied near apparatus features that require a user function description. Wherever necessary, the labels shall be colour coded to differentiate controls and their respective functions to simplify and clarify complex configurations.</p>	YES	NO	SPECIFY
<p>MASTER GAUGE TEST PORTS One (1) set of master gauge test ports with plugs shall be provided on the pump panel for testing of the intake and discharge pressure gauges.</p>	YES	NO	SPECIFY
<p>ELECTRIC PUMP PRIMER A Class 1 ESP-12 positive displacement oil-less, rotary vane electric motor driven pumper primer conforming to the requirements of (NFPA) 1901, Standard for Automotive Fire Apparatus, shall be installed on the apparatus. The pump body shall be manufactured of heat treated anodized aluminum for wear and corrosion resistance. The pump shall be capable of producing a minimum 24 Hg vacuum at 2000 feet above sea level. The electric motor shall be a 12 VDC totally enclosed unit. The priming pump shall not require lubrication. The electric priming pump shall be operated by a single push button control mounted on the pump operator's panel. The control valve shall be of all bronze construction.</p>	YES	NO	SPECIFY
<p>PRESSURE GOVERNOR A Class 1 "TPG+" pressure governor pump panel control module and a pressure transducer shall be provided. Class 1 Total Pressure Governor Plus is designed to control the engine fuel to maintain a desired pump pressure or engine speed setting along with displaying diagnostic information. The "TPG+" has a pre-set</p>	YES	NO	SPECIFY

	<p>button for selecting a predetermined pressure or RPM and an emergency return to idle button.</p> <p>LED readouts shall display RPM, engine oil pressure and oil temperature, engine temperature, transmission temperature, pump hours, total engine hours, fuel rate, and battery voltage. An audible alarm output shall also be part of the system.</p>			
	<p>PRESSURE RELIEF VALVE</p> <p>A Class 1 stainless steel pressure relief valve with a range of adjustment from 50 to 200 PSI shall be provided and installed inside pump compartment piped to the suction side of the pump. The valve shall be preset at 125 PSI suction inlet pressure. The valve shall be installed inside the pump compartment where it will be easily accessible for future adjustment. The excess water shall be plumbed to the atmosphere via the unloader pipe and shall dump on the opposite side of the pump operator.</p> <p>For normal pumping operations, the relief valve shall not be capped and there shall be a placard stating "DO NOT CAP" installed.</p>	YES	NO	SPECIFY
	<p>ITL TANK LEVEL GAUGE</p> <p>The apparatus shall be equipped with a Class1 ITL-4L "Intelli-Tank" tank level gauge for indicating water level. The tank level gauge shall indicate the liquid level on an easy to read red LED display and show increments of 1/8 of a tank.</p> <p>Each tank level gauge system shall include:</p> <ol style="list-style-type: none"> 1) A pressure transducer that is mounted on the outside of the tank in an easily accessible area. 2) A super bright red LED 4-light display with a visual indication at nine accurate levels. 3) A set of weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power. 	YES	NO	SPECIFY
	<p>PUMP SHIFT CONTROLS</p> <p>One (1) air pump shift control panel shall be mounted on the commercial chassis console. The following shall be provided: a three (3) position lever, an engraved PUMP ENGAGED identification light, and an engraved OK TO PUMP identification light. The pump shift control panel shall be</p>	YES	NO	SPECIFY

	black with yellow markings and shall include pump shift instructions. The instruction plate shall describe the transmission shift selector position used for pumping and shall be located so it can be seen from the drivers position.			
	ANODES There shall be three (3) alloy anodes provided. The anodes shall be strategically placed on the pump intake and discharge manifolds, and shall be easily replaceable.	YES	NO	SPECIFY
	COMPARTMENT HEATER A Red Dot 892041-12V 40,000 BTU auxiliary heater shall be provided and installed inside the pump compartment. The heater shall be connected to the engine cooling system with gated valves located inside the engine compartment. A toggle switch and green LED indicator light shall be provided on the operator's pump control panel. The switch shall be weather resistant, and labeled.	YES	NO	SPECIFY
	HEAT PAN There shall be a heat pan enclosure installed under the apparatus fire pump. The heat pan assembly shall be fabricated of AP.1885052H32 aluminum plate. The top portion shall be bolted in place. The enclosure shall have two slide out trays; one on each side of the apparatus for ease of service and maintenance. The bottom trays shall be held in the place with mechanical style latch devices.	YES	NO	SPECIFY
	FIRE PUMP The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis, and have the capacity of 5,000 liters per minute CAN/ULC S-515 rated performance. The entire pump shall be assembled and tested at the pump manufacturer's factory. The pump shall be driven by a drive line from the truck transmission. The engine shall provide sufficient horsepower and RPM to enable pump to meet and exceed its rated performance. The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 600 PSI. The pump shall be fully tested at the pump manufacturer's factory to the performance spots as outlined by the latest NFPA Pamphlet No. 1901.	YES	NO	SPECIFY

	<p>MANIFOLDS Plumbing manifold bodies shall be stainless steel. The suction inlets shall include removable die cast zinc screens designed to provide cathodic protection for the pump, therefore reducing deterioration within the pump.</p>	YES	NO	SPECIFY
	<p>PLUMBING All plumbing and piping shall be of 304 stainless steel or flexible type piping. All inlet and outlet plumbing 3" and smaller shall be plumbed with either stainless steel piping or synthetic reinforced rubber hose blended with high tensile strength cord for maximum performance in tight bend applications. Secondary plumbing such as small diameter drain lines shall be stainless steel, brass or hose. Where chassis and module flexing or vibration may damage or loosen piping or where a coupling is required for servicing, the piping shall be equipped with victaulic or rubber type couplings.</p>	YES	NO	SPECIFY
	<p>PUMP COOLING LINE There shall be a 3/8" line running from the pump to the water tank to assist in keeping the pump water from overheating. A valve shall be installed on the operator's panel.</p>	YES	NO	SPECIFY
	<p>ENGINE COOLING LINE There shall be a 3/8" line running from the pump to the engine to assist in keeping the engine from overheating. A valve shall be installed on the operator's panel.</p>	YES	NO	SPECIFY
	<p>MASTER DRAIN There shall be a master drain provided on the pump operator control panel. The drain shall be brass and stainless steel, and allow quick draining of multiple intake and discharge lines.</p>	YES	NO	SPECIFY
	<p>MANUAL DRAINS All 2" or larger intakes or discharges shall be equipped with a 0.75" 90° lift handle ball valve drain, unless noted otherwise.</p>	YES	NO	SPECIFY
	<p>6.0" MASTER INTAKES Two (2) 6" master intakes inlets shall be provided, one (1) on the left side and one (1) on the right side. The intakes are 6" NH threads. Each intake shall include an integral strainer. 21-00-0281 The left side 6" intake shall include a Class 1 6" chrome cap.</p>	YES	NO	SPECIFY

	<p>21-00-0286 The right side 6" intake shall include a Class 1 6" chrome cap.</p>			
	<p>VALVES All valves shall be Akron 8800 (stainless steel ball) series heavy duty design capable of bi-directional flow and incorporate a self-locking ball feature and full flow optimizing characteristics that reduce the operational force required for actuation.</p>	YES	NO	SPECIFY
	<p>2.5" LEFT SIDE INTAKE There shall be one (1) 2.5" intake on the left side of the apparatus, rearward of the master intake. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. The intake valve shall be operated with a swift-control handle. The intake shall include the following components: One (1) 2.5" valve One (1) 2.5" CSA intake swivel One (1) 2.5" CSA self-venting plug, secured by a chain</p>	YES	NO	SPECIFY
	<p>2.5" LEFT SIDE DISCHARGE - FORWARD PANEL LOCATION There shall be one (1) 2.5" discharge on the left side of the apparatus, located in the forward panel location. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. The termination shall include the following components: One (1) 2.5" valve with rack and sector control (side-mount) or top control (for top-mount) One (1) 2.5" NST adapter One (1) 2.5" NST x 2.5" CSA elbow swivel male adapter One (1) 2.5" CSA cap, secured by a chain</p>	YES	NO	SPECIFY
	<p>2.5" LEFT SIDE DISCHARGE - REAR PANEL LOCATION There shall be one (1) 2.5" discharge on the left side of the apparatus, located in the rear panel location. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.</p>	YES	NO	SPECIFY

<p>The termination shall include the following components: One (1) 2.5" valve with rack and sector control (side-mount) or top control (for top-mount) One (1) 2.5" CSA elbow male adapter One (1) 2.5" CSA 01.S06.23 cap, secured by a chain</p>			
<p>2.5" RIGHT SIDE DISCHARGE - FORWARD PANEL LOCATION There shall be one (1) 2.5" discharge on the right side of the apparatus, located in the forward panel location. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. The termination shall include the following components: One (1) 2.5" valve with push-pull control (side-mount) or top control (for top-mount) One (1) 2.5" NST adapter One (1) 2.5" NST x 2.5" CSA elbow swivel male adapter One (1) 2.5" CSA cap, secured by a chain</p>	YES	NO	SPECIFY
<p>3.0" RIGHT SIDE MASTER DISCHARGE - REAR PANEL LOCATION There shall be one (1) 3.0" discharge on the right side of the apparatus, located in the rear panel location. The plumbing shall consist of 3.0" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. The termination shall include the following components: One (1) 3.0" valve with push-pull control (side-mount) or top control (for top-mount) One (1) 3.0" NH adapter One (1) 3.0" x 4.0" storz Northline SFSA30-4030F elbow swivel adapter One (1) 4.0" storz Northline SC400-NL cap, secured by a chain</p>	YES	NO	SPECIFY
<p>3.0" DECK GUN DISCHARGE There shall be one (1) 3.0" deck gun discharge on the top of the pump module. The plumbing shall consist of 3.0" piping, and shall incorporate an auto-drain. The termination shall include the following components: One (1) 3.0" valve with push-pull control (side-mount) or top control (for top-mount) One (1) 3.0" NH adapter 21-00-0361</p>	YES	NO	SPECIFY

<p>The deck gun discharge pipe shall be left uncapped for fire department installation of a deck gun.</p>			
<p>CROSSLAY COVER The cross lays shall include an aluminum checker plate hinged top. The checker plate top shall include a bumper and handle. The cross lay hose bed area shall include vinyl side covers, secured with bungee cord loops on two (2) bottom corners. The cross lay hose bed vinyl side covers shall be black in color.</p>	YES	NO	SPECIFY
<p>CROSSLAYS There shall be two (2) 1.5" cross lays. These discharges are foam capable, if a foam system is a selected item. The plumbing shall consist of 2.0" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. Each termination shall include the following components: One (1) 2.0" valve with push-pull control (side-mount) or top control (for top-mount) One (1) 2.0" to 1.5" NPSH swivel, allowing deployment of the cross lay on either side of the truck</p>	YES	NO	SPECIFY
<p>2.5" REAR DISCHARGE - RIGHT SIDE There shall be one (1) 2.5" discharge on the rear of the apparatus, located on the rear wall below the hose bed on the right side. This discharge is foam capable, if a foam system is a selected item. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access. The termination shall include the following components: One (1) 2.5" valve with push-pull control (side-mount) or top control (for top-mount) One (1) 2.5" CSA elbow swivel male adapter One (1) 2.5" CSA cap, secured by a chain</p>	YES	NO	SPECIFY
<p>TANK TO PUMP One (1) 3" valve shall be installed between the water tank and the pump. There shall be a one-way check valve provided to prevent back-fill into the tank. The valve shall be controlled with push-pull control (side-mount) or top control (for top-mount).</p>	YES	NO	SPECIFY

	<p>PUMP TO TANK/TANK FILL One (1) 2.5" valve shall be installed between the pump and the water tank. The valve shall be controlled with push-pull control (side-mount) or top control (for top-mount).</p>	YES	NO	SPECIFY
	<p>FOAM SYSTEM PROVISION The pump shall not include a foam system. The front discharge manifold shall include a removable pipe to allow future installation of a foam system. The pipe shall be connected with victaulic connectors.</p>	YES	NO	SPECIFY
	<p>WATER TANK The fire apparatus shall include a water tank. The water tank shall be mounted on the sub-frame, and removable for service if required. The water tank volume shall be 1,000 US gallons. The integral A foam tank volume shall be 30 US gallons.</p>	YES	NO	SPECIFY
	<p>WATER TANK SUMP There shall be one (1) sump standard per tank. The sump shall be constructed of 0.5" black Polyprene and be located in the left front corner of the tank, unless specified otherwise. On all tanks that require a front suction, a schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" FNPT threaded outlet on the bottom for a drain plug. This shall be used as a combination clean out and drain. All tanks shall have an anti-swirl plate located approximately 2.5" above the dip tube. There will be two (2) standard tank outlets: one for tank to sump suction line at which shall be a minimum of 2.5" FNPT coupling; and one for a tank fill line which shall be a minimum of 1.5" FNPT coupling. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank, and be capable of withstanding sustained fill rates of up to 1,000 G.P.M at 100 psi. The addition of rear suction fittings, nurse valve fittings, dump valve fittings, and through tank sleeves to accommodate rear discharge piping must be specified. All auxiliary outlets and inlets must meet N.F.P.A. 1900 guidelines in effect at the time of manufacture.</p>	YES	NO	SPECIFY

	<p>WATER TANK MOUNTING The water tank shall be isolated from the body substructure frame and cross members with 2" x 0.25" and 2" x 0.5" hard rubber strips. The water tank shall sit nested inside the center body substructure and shall be completely removable without disturbing the body side panels. Framing stops on all four sides shall keep the water tank from shifting front to back or side to side.</p>	YES	NO	SPECIFY
	<p>WATER TANK DRAIN PLUG There shall be a water tank drain plug provided. No drain valve shall be provided.</p>	YES	NO	SPECIFY
	<p>ALUMINUM PUMPER BODY GENERAL CONSTRUCTION The aluminum body shall be designed for fire and rescue service operations. Commercially designed bodies intended for use in other applications are not acceptable due to lower levels of quality, construction, and longevity. The body module shall utilize a fully welded sub-frame, separate from the chassis, incorporated into the welded body under the structure. The complete body shall be formed and welded, built with 0.188" (3/16") 5052 H32 aluminum plate. All exterior lower compartments and walls shall have fully welded seams with all upper walls, compartments, and interior dividers having stitch welding every 6" minimum. All welding and sheet metal fabrication shall be completed with the highest degree of quality and precision. All welds and seams shall be caulked and sealed with permanent pliable silicone. Strict attention shall be given to the elimination of hazards to personnel and equipment, such as rough edges, sharp corners, or protruding nuts and bolts. All exposed welded corners on aluminum checker plate shall be polished to a bright finish. All exposed sharp corners shall be radiused and deburred. All structural seams shall be fully seam welded. All other body seams and shall be welded on 6" centers and then silicone caulked prior to painting. Due to the engineered combination of specifically chosen materials, no dissimilar metals shall be used in the body and its supporting substructure without being separated by a sufficient corrosion and</p>	YES	NO	SPECIFY

<p>electrolysis inhibitor. This shall consist of isolation pads, ECK and other structural adhesives. Only stainless steel nuts, bolts, and other hardware shall be used. All hardware shall have end caps installed where shall protrude into compartments or other areas where equipment or hands may go to assist in damage prevention or injury. All holes shall be drilled during the bare metal manufacturing, and holes drilled into painted surfaces shall not be acceptable.</p> <p>The body shall be completely modular in design thereby allowing its transfer to a new chassis without cutting or welding in the event of an accident or the replacement of the chassis. The apparatus body shall be form built, and building a body directly on the chassis shall be not required or permitted.</p> <p>The body and tank shall be supported with over the frame cross channels. These channels shall be aluminum 6061-T6511 extrusions with a minimum dimension of 2" x 3" x 0.250" thickness. The exterior side compartments shall have an aluminum angle welded to cross channels and rear compartment walls. The front to rear angle shall be a sized for the application. The compartment floors shall be 0.188" aluminum and shall be sweep out construction design, which shall permit easy cleaning of the compartments. The outer flange of the compartment floors shall be fabricated to form a mounting area of exterior rub rails. This flange shall be a minimum of 3.5" vertical dimension, full width of the compartment floor. The front entrance to the compartment shall have a 2" deep x 1" high recess break for mounting of compartment doors.</p> <p>The body welding and fabrication shall be by certified welders that conform to CSA Standard W47.2M. This certification of Fusion Welding of Aluminum, Division 2.1 shall be submitted with the bid documents for the current year. This certificate shall denote the company code, scope, and date of register; exceptions to this certification shall not be permitted. American Welding Bureau certifications shall be accepted as equal, provided they are current for the submission date. All holes for the installation of lighting and other equipment</p>			
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	shall be drilled prior to apparatus painting, and shall be treated and sealed with corrosion inhibiting products during equipment installation.			
	EXTERNAL COMPARTMENT VENTS Six (6) external compartments shall include a 40REGSM 4" circular vent on the lower portion of the rear wall.	YES	NO	SPECIFY
	EXTERNAL COMPARTMENT DRAIN HOLES All external compartments shall include drain holes drilled into the left and right rear corners to permit compartments to be washed out and drained, preventing water pools on compartment floors.	YES	NO	SPECIFY
	ALUMINUM CHECKERPLATE OVERLAYS The front wall of the body shall include an overlay of ACP.1253003H22 aluminum checker plate. The top of the body shall include an overlay of ACPF.1253003H22 NFPA embossed aluminum checker plate. The rear wall of the body shall not include any overlays, to allow for the installation of chevrons.	YES	NO	SPECIFY
	BODY MOUNTS The body and body frame shall be mounted to the single-axle commercial chassis with torsion mounts. The torsion mounts shall be strategically placed in order to maximize the support the body receives, while allowing independent frame flex without negative effects on the body and body frame.	YES	NO	SPECIFY
	FRAME RAIL TREATMENT The double-frame or triple-frame shall be treated with a corrosion inhibiting spray prior to body mounting. The spray shall be generously applied between the frame rails and at all openings in the frame, to assist in long term corrosion prevention prior to daily use.	YES	NO	SPECIFY
	FRAME MOUNTED TOW EYES There shall be two (2) rear frame mounted tow eyes constructed of 0.75" thick mild steel with 3" diameter holes and bolted to the chassis frame rails with grade 8 bolts. There shall be structural framework to support the tow eyes, as required. The complete assembly shall be painted black.	YES	NO	SPECIFY

<p>ALUMINUM COMPARTMENT UNISTRUT Aluminum unistrut channel shall be provided in compartments to allow for adjustable shelf and other components to be moved as required. The aluminum unistrut shall be welded in place, and shall be approximately 12" from compartment floors to 12" below the open height of compartment doors. UNISTRUT PROVIDED: The following aluminum unistrut channels shall be provided: L1 COMPARTMENT 40-06-1010 This compartment shall be supplied with unistrut for a full height and full depth compartment. L2 COMPARTMENT 40-06-1020 This compartment shall be supplied with unistrut for a half height and full depth compartment. L3 COMPARTMENT This compartment shall be supplied with unistrut for a full height and full depth compartment. R1 COMPARTMENT This compartment shall be supplied with unistrut for a full height and split depth compartment. R2 COMPARTMENT This compartment shall be supplied with unistrut for a half height and half depth compartment. R3 COMPARTMENT This compartment shall be supplied with unistrut for a full height and split depth compartment. B1 COMPARTMENT This compartment shall be supplied with unistrut for a half height and full depth compartment.</p>	<p>YES</p>	<p>NO</p>	<p>SPECIFY</p>
<p>BODY COMPARTMENTS The following body compartments shall be provided: LEFT SIDE COMPARTMENTS L1 COMPARTMENT The compartment shall be 48.5" wide by 77" high by 27" deep. The compartment door opening is approximately 45" wide by 68" high. This compartment shall include a roll-up door. L2 COMPARTMENT</p>	<p>YES</p>	<p>NO</p>	<p>SPECIFY</p>

<p>The compartment shall be 68" wide by 42" high by 27" deep. The compartment door opening is approximately 66" wide by 33" high. This compartment shall include a roll-up door</p> <p>L3 COMPARTMENT The compartment shall be 48.5" wide by 77" high by 27" deep. The compartment door opening is approximately 45" wide by 68" high. This compartment shall include a roll-up door</p> <p>RIGHT SIDE COMPARTMENTS R1 COMPARTMENT The compartment shall be 48.5" wide by 77" high by 14.5" deep in the upper section and 27" deep in the lower section. The compartment door opening is approximately 45" wide by 68" high. This compartment shall include a roll-up door, with features as described in the Amdor door section.</p> <p>R2 COMPARTMENT The compartment shall be 68" wide by 42" high by 14.5" deep. The compartment door opening is approximately 66" wide by 33" high. This compartment shall include a roll-up door</p> <p>R3 COMPARTMENT The compartment shall be 48.5" wide by 77" high by 14.5" deep in the upper section and 27" deep in the lower section. The compartment door opening is approximately 45" wide by 68" high. This compartment shall include a roll-up door.</p> <p>REAR COMPARTMENTS B1 COMPARTMENT The compartment shall be 44" wide by 47.5" high by 31.5" deep. The compartment door opening is approximately 38" wide by 37" high. This compartment shall include a roll-up door</p>			
<p>AMDOR ROLL-UP COMPARTMENT DOORS All compartments shall be equipped with roll-up doors complete with the following features: - 1" aluminum double wall slats with continuous ball & socket hinge joint designed to prevent water ingress and</p>	<p>YES</p>	<p>NO</p>	<p>SPECIFY</p>

<p>weather tight recessed dual durometer seals</p> <ul style="list-style-type: none"> - Double wall reinforced bottom panel with stainless steel lift bar latching system - Bottom panel flange with cut-outs for ease of access with gloved hands - Reusable slat shoes with positive snap-lock securement - Smooth interior door curtain to prevent equipment hang-ups - One-piece aluminum door track / side frame - Non-marring recessed side seals with UV stabilizers to prevent warping - Dual leg bottom seal (wear component material to be Type 6 Nylon) - Door striker will provide support beneath the lift bar to prevent door curtain bounce and potential false door ajar indications. <p>The doors, frames and headers shall be satin aluminum unpainted finish.</p> <p>Luma Bar lights shall be provided on all doors, located on the left and right door frames. The lights shall be white.</p> <p>A magnetic switch shall be provided, which shall operate door lights as well as being connected to the door ajar system. The magnetic switch is located on the top of the door to prevent damage.</p>			
<p>BODY FENDER PANELS - SINGLE AXLE</p> <p>There shall be enclosed body fender panels around the rear wheels.</p> <p>The body fender panels shall be made from ACP.1253003H22 aluminum checker plate. The panels shall be bolted to the body, and ECK shall be used to isolate the panel from the painted body surface. The panel shall be easily removable for service.</p> <p>The fender panel shall have a radius cut to match the rear tire profile. The radius shall have rubber fenderettes installed. They shall be bolted to the fender panel with stainless steel hardware. They shall be easily removable.</p> <p>The fender panel shall have removable liners provided. The 228873 0.118" black PVC liners shall be easily removable, and shall help keep the wheel well area clean from dirt and other contaminants.</p>	YES	NO	SPECIFY
<p>HOSE BED CAPACITY</p> <p>The hose bed shall be capable of carrying a minimum of 800' of 2.5" hose, as specified as a minimum hose load in ULC and NFPA.</p>	YES	NO	SPECIFY

	<p>HOSE BED LENGTH The hose bed shall be full-length, extending to the rear wall of the body.</p>	YES	NO	SPECIFY
	<p>HOSE BED The hose bed side walls shall be constructed from the same material as the main body description, and integral with the body construction. The entire surface shall be watertight to prevent leaks into the compartment areas. The hose bed shall be free of sharp corners, bolts, or other obstructions that may catch hose and other equipment. The hose bed side walls shall be sanded smooth to prevent damage to any hose when being deployed. 40-11-1001 The hose bed shall be covered with a black Turtle-Tile overlay. A minimum of four (4) tracks shall be installed to allow for dividers to be installed in the hose bed.</p>	YES	NO	SPECIFY
	<p>HOSE BED DUNNAGE DIVIDER The hose bed shall include a transverse divider. The main hose storage area shall be separated from the area around where the water and foam tank fill towers are located. The dunnage divider shall be made from AP aluminum plate, bolted to the hose bed side walls. The divider shall be sanded aluminum finish. The dunnage divider shall include a maximum-width piece of aluminum unistrut to secure any hose bed dividers.</p>	YES	NO	SPECIFY
	<p>HOSE BED DIVIDERS - Two (2) AP.1885052H32 aluminum plate divider(s), adjustable in the hose bed; divider(s) to be sanded smooth; divider(s) to include a hand-hold cutout at the rear</p>	YES	NO	SPECIFY
	<p>HOSE BED COVER The hose bed cover shall be a heavy-duty vinyl tarp. The hose bed cover shall be permanently attached at the front of the hose bed in order to prevent it from being blown during vehicle operations. It shall be removable for service or replacement, if required. The hose bed cover shall include a 3-year limited warranty.</p>	YES	NO	SPECIFY

	The hose bed cover end flap shall be weighted, and not include shock cords or hooks. The hose bed cover shall be red.			
	<p>LADDER AND PIKE POLE STORAGE COMPARTMENT</p> <p>The rear of the apparatus body shall have an extension ladder storage tunnel provided. The tunnel shall include slide pads and individual slots for each component stored. The tunnel shall store the following:</p> <ul style="list-style-type: none"> - one (1) 24' 2-section extension ladder - one (1) (up to) 14' roof ladder - one (1) (up to) 10' folding attic ladder - two (2) standard pike poles - (<i>ladders, pike poles and other equipment is not included in this section, see loose equipment for exact items provided</i>) <p>40-12-4010</p> <p>The compartment shall include an AP.1255052H32 aluminum plate door with full length stainless steel hinge, two (2) push-button latches, weather stripping and a door-ajar sensor. The door shall be finished with red and fluorescent yellow-green chevrons to match the rear wall of the apparatus body. The compartment shall be located vertically in the right side inboard position of the rear body, with half-depth (reduced side depth dependent on components requested) side compartments available in this area.</p>	YES	NO	SPECIFY
	<p>SUCTION HOSE STORAGE</p> <p>The rear of the apparatus body shall have suction hose storage provided. There shall be storage for two (2) 6" x 10' suction hoses, with one (1) located on each side above the exterior compartments. The storage compartment shall be integral with the main body construction. The compartment shall be the length of the suction hose, preventing it from sliding out of reach into the body. The suction hose storage compartment shall be made from aluminum. The aluminum plate door shall be finished with diamond grade red and 6" diamond grade fluorescent yellow-green chevrons.</p>	YES	NO	SPECIFY
	<p>TAILBOARD</p> <p>40-13-0003</p> <p>The tailboard shall include additional 0.25" aluminum structural reinforcement under the body.</p>	YES	NO	SPECIFY

<p>40-13-0010</p> <p>The tailboard shall be an independent assembly bolted to the rear body structural framing to provide body protection and a solid rear stepping platform. In the event that the rear tailboard does become damaged, it shall be easily unbolted and replaced.</p> <p>The tailboard shall be designed to incorporate crush-style fabrication. This incorporates lighter materials in the tailboard than the body structure so the step will "crush" in a collision before the body structure.</p> <p>The tailboard stepping surface shall be constructed of ACPF.1883003H22 embossed aluminum checker plate to meet minimum standard requirements for slip resistance.</p> <p>The tailboard shall extend 16" from the rear wall, including a 1" gap between the rear wall and the end of the tailboard stepping surface. This measurement excludes any additional rub rails or attachments on the rear of the tailboard.</p> <p>The rear tailboard and body shall be constructed such that the angle of departure shall be no less than 8 degrees at the rear of the apparatus when fully loaded.</p>			
<p>RUB RAILS</p> <p>The apparatus shall include rub rails. The anodized aluminum extruded rub rails shall be approximately 1" wide by 2.5" tall, and include a ridged upper surface. The rub rails shall be spaced approximately 1" from the body sides with plastic isolator discs, preventing water, dirt and debris build-up. The rub rails shall be easily replaceable in the event of damage.</p> <p>The ends of the rub rails shall be cut at a 45-degree angle.</p> <p>The sides of the body shall include rub rails. No reflective shall be provided.</p> <p>The rear of the body/tailboard shall include rub rails. No reflective shall be provided.</p>	YES	NO	SPECIFY
<p>HANDRAILS</p> <p>Handrails shall be provided on the apparatus to provide safe and easy access to equipment storage areas and hose storage area's, as may be required.</p> <p>Handrails shall be made from knurled anodized aluminum with a 1.25" diameter.</p>	YES	NO	SPECIFY

<p>Handrails shall include polished cast aluminum stanchions, with rubber gaskets. The following handrails shall be supplied:</p> <ul style="list-style-type: none"> - one (1) 12" handrail on the left side of the rear of the body, horizontal below the suction hose - one (1) 12" handrail on the right side of the rear of the body, horizontal below the suction hose - one (1) 42" handrail on the left side of the rear of the body, vertical in the outboard location - one (1) 42" handrail on the right side of the rear of the body, vertical in the outboard location - one (1) 44" handrail on the rear of the body, horizontal on the rear of the intermediate step 			
<p>ACCESS STEPS Access steps shall be provided on the apparatus. Innovative Controls 30042343511100 cast aluminum folding steps shall be provided, meeting ULC and NFPA stepping surface requirements. The folding steps shall include LED lights and a lit logo panel. The folding steps shall be provided as follows:</p> <ul style="list-style-type: none"> - three (3) folding steps on the rear wall left side of the apparatus body, 18" stepping surface to stepping surface spacing - one (1) folding step on the rear wall right side of the apparatus body, 18" stepping surface to stepping surface spacing 	YES	NO	SPECIFY
<p>INTERMEDIATE REAR WALL STEP One (1) fixed intermediate rear wall step approximately 8" deep shall be provided below the hose bed to be used as a stepping area when loading or deploying hose. The step sides shall be fabricated of aluminum checker plate and mounted on the rear wall of the apparatus with gusset-type mounting. The stepping surface is extruded aluminum 6" "Diamondback" deck plate, an aggressive stepping surface with serrations, with diamond open grate holes to allow debris to fall through. The step is 42" wide, and is mounted approximately 0.5" from the rear wall.</p>	YES	NO	SPECIFY
<p>SCBA STORAGE There shall be storage for SCBA cylinders, as follows:</p>	YES	NO	SPECIFY

	- five (5) Zico PACSR-Y yellow plastic storage units and five (5) Zico PACSR-RS restraint straps that be installed in the L2 compartment.			
	LICENSE PLATE BRACKET There shall be a Cast Products Inc. cast aluminum mounting bracket with LED light for one (1) license plate. The bracket shall be mounted on the rear of the apparatus on the right side, 10" from the corner and 1" above the tailboard.	YES	NO	SPECIFY
	MUD FLAPS 14" x 24" 671-8012-01 black mud flaps shall be provided behind the rear wheels (chassis supplied front mud flaps).	YES	NO	SPECIFY
	COMMERCIAL CHASSIS ELECTRICAL SYSTEMS The commercial chassis 12V standard electrical systems shall be provided as described in the chassis specifications.	YES	NO	SPECIFY
	BODY ELECTRICAL SYSTEMS - CLASS 1 MULTIPLEX All apparatus electrical systems shall be designed and installed in accordance with SAE regulations and guidelines and industry best practices. All apparatus electrical systems shall adhere to the relevant ULC and NFPA requirements for new fire apparatus. The low-voltage electrical system wiring shall be function coded and encased in split loom conduits, suitably secured and protected against heat and physical damage. All wiring shall be colour coded and labeled accordingly. Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. Exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction. Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When	YES	NO	SPECIFY

<p>required, automatic reset breakers and relays shall be housed in the main body junction panel.</p> <p>There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage and shall be uniquely identified at least every 12" by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA 1901 standards.</p> <p>All lights in a weather exposed area that have their sockets shall have corrosion preventative compound added to the socket terminal area. Warning lights shall follow ULC and NFPA activation requirements. The apparatus shall respond to an emergency "calling for the right of way". When the parking brake is activated, a "blocking the right of way" system shall be automatically activated. "Clear" warning lights shall be automatically shed on actuation of parking brake.</p>			
<p>ELECTRICAL NODE LOCATIONS Electrical nodes shall be located in the L3 and R3 (or most rear) compartments, in the upper rear corner. The nodes shall include a removable protective aluminum checker plate guard.</p>	YES	NO	SPECIFY
<p>ELECTRICAL SYSTEM PERFORMANCE TESTING The apparatus low-voltage electrical system will be tested and certified. Tests shall be performed when the air temperature is between 0°F and 110°F (-18°C and 43°C). The three tests defined in NFPA shall be performed in the order in which they appear.</p>	YES	NO	SPECIFY
<p>MASTER BATTERY SWITCH The commercial chassis shall include a master battery switch, as per the commercial chassis specifications.</p>	YES	NO	SPECIFY
<p>VEHICLE DATA RECORDER/SEAT BELT MONITOR The chassis shall be supplied with a vehicle data recorder and seat belt monitor.</p>	YES	NO	SPECIFY

<p>BATTERY CHARGER/AIR COMPRESSOR/ELECTRICAL INLET</p> <p>There shall be one (1) 52-23-4606 Kussmaul Pump Plus 1200 kit installed in the commercial chassis cab. The kit shall include the following Kussmaul items:</p> <ul style="list-style-type: none"> - one (1) 120V 20amp super auto-eject with yellow weather proof snap cover - one (1) bar-graph display integrated with the auto-eject cover - one (1) 120V Pump Plus 1200 battery charger - one (1) 12V air auto pump, connected to the chassis air brake system <p>The auto-eject and bar-graph display shall be located on the left side step risers below the driver door, in a best-fit location.</p> <p>The battery charger shall be located below the drivers seat, or in a best-fit cab location.</p> <p>The air compressor shall be located behind the drivers seat, or in a best-fit cab location.</p>	YES	NO	SPECIFY
<p>GROUND LIGHTS</p> <p>Grounds lights shall be provided with the apparatus to illuminate the area in close proximity to the apparatus during low light conditions.</p> <p>Twelve (12) 12" LED ground lights shall be supplied in the following locations:</p> <ul style="list-style-type: none"> - two (2) lights shall be located under the front left/right cab doors - two (2) lights shall be located under the rear left/right cab doors - two (2) lights shall be located under the left/right pump house - two (2) lights shall be located under the L1/R1 compartments - two (2) lights shall be located under the L3/R3 compartments - two (2) lights shall be located under the rear tailboard/B1 compartment <p>The body ground lights shall turn on when the commercial chassis transmission is placed in neutral and the parking brake is applied, and when the transmission is placed in reverse.</p>	YES	NO	SPECIFY
<p>ENGINE COMPARTMENT LIGHT</p> <p>The commercial chassis shall include an engine compartment light.</p> <p>The engine light is a LED light, includes a switch and is located in a best-fit location based on the chassis type.</p>	YES	NO	SPECIFY

<p>VEHICLE CLEARANCE LIGHTS Vehicle clearance lights shall be provided on the apparatus to meet all government regulations and requirements. LED marker lights shall be used, specifically amber and red. The lights shall be located in the rub rails. These lights are in addition to chassis provided lights, as per the chassis specifications. The lights shall be located as follows: - two (2) amber lights located on the side of the body, on the left and right lower front corners - two (2) red lights located on the side of the body, on the left and right lower rear corners - two (2) red lights located on the rear of the body, on the left and right lower side corners - three (3) red lights located on the rear of the body, centered in the rub rails. The middle light is centered, and the left and right lights minimum 6", maximum 12" from middle light.</p>	YES	NO	SPECIFY
<p>MID-BODY TURN SIGNAL The apparatus shall include mid-body turn signals. The turn signals shall be located on the left and right side of the apparatus body, immediately forward of the rear axle, and located in the rub rails. The turn signal shall be amber LED lights. The light shall be off when not in use, and shall flash when the turn signal or four-way flashers are in use.</p>	YES	NO	SPECIFY
<p>STEP LIGHTS Step lights shall be provided to illuminate all stepping surfaces during low light operations. The lights shall turn on when the park brake is applied. LED 45 degree step lights shall be provided. The lights shall be located as follows: - one (1) light at the left side and right side mid and upper step of the 4-door commercial chassis cab steps (eight total) - one (1) light on the left rear wall of the apparatus body</p>	YES	NO	SPECIFY
<p>BRAKE LIGHT CLUSTER Brake/tail, turn and backup lights shall be installed on the apparatus, on the left and right side of the rear wall. The following lights shall be provided: - red brake/tail lights - top position - amber turn indicators - second position</p>	YES	NO	SPECIFY

	- white/clear back-up lights - third position - open bottom position for warning light installation - chrome plastic 4 light vertical bezel			
	ELECTRONIC SIREN AMPLIFIER One (1) electronic siren amplifier shall be supplied. The siren shall be mounted in the cab console in a location easily reached by both the driver and front passenger seating locations. The 200W self-contained siren shall include multiple siren tones.	YES	NO	SPECIFY
	ELECTRONIC SIREN SPEAKER One (1) 100W composite electronic siren speaker shall be installed. The electronic siren speaker shall be located through the bumper on the left side.	YES	NO	SPECIFY
	DOOR AJAR WARNING There shall be a door ajar warning system shall be installed in the commercial chassis cab. One (1) LED light shall be provided, and shall flash when a compartment door is open and the parking brake is released. One (1) audible alarm shall be provided, and shall intermittently sound when a compartment door is open and the parking brake is released.	YES	NO	SPECIFY
	SWITCH PANEL LAYOUT The switch panel layout shall be installed in the commercial chassis panel locations, as previously described. The layout shall be best-fit in a logical sequence, and all switches shall be in reach of the driver, with the exception of any duplicate switches specifically for front passenger use. All switches shall be lit rocker switches with legends above the switch. The master warning switch shall be red, with a red light. The balance of the switches shall be black, with green lights. The red master warning switch shall control all warning lights.	YES	NO	SPECIFY
	A-UPPER WARNING - CAB LIGHTBAR One (1) 60" lightbar shall be installed on the cab roof NFPA compliant.	YES	NO	SPECIFY
	B-C-D-UPPER WARNING - BEACON LIGHTS Two (2) LED beacons shall be provided in the B-C-D-upper warning light location.	YES	NO	SPECIFY

	The lights shall have red LED's and red lenses. Each beacon shall be mounted on the flat upper surface of the apparatus body.			
	A-LOWER WARNING LIGHTS (FRONT) Two (2) 6"x4" LED lights with red LED's and clear lenses and chrome bezels shall be supplied, located as follows: 60-21-2015 - Two (2) on the front grill, located vertically centered on the grill	YES	NO	SPECIFY
	B-LOWER WARNING LIGHTS (RIGHT SIDE) Two (2) 6"x4" LED lights with red LED's and clear lenses and chrome bezels shall be supplied, located as follows: - One (1) on the right side of the engine hood - One (1) on the right side of the body, centered over the rear axle	YES	NO	SPECIFY
	C-LOWER WARNING LIGHTS (REAR) Two (2) 6"x4" LED lights with red LED's and clear lenses and chrome bezels shall be supplied, located as follows: - Two (2) on the rear wall, in the bottom open position of the brake light quad cluster	YES	NO	SPECIFY
	D-LOWER WARNING LIGHTS (LEFT SIDE) Two (2) 6"x4" LED lights with red LED's and clear lenses and chrome bezels shall be supplied, located as follows: - One (1) on the left side of the engine hood, - One (1) on the left side of the body, centered over the rear axle	YES	NO	SPECIFY
	B-UPPER SURFACE MOUNTED 12V SCENE LIGHTS (RIGHT SIDE) Two (2) 12V LED surface-mounted scene lights with chrome bezels shall be supplied, located as follows: - One (1) on the right side upper body, front corner - One (1) on the right side upper body, rear corner inboard of warning lights (if equipped) The B-upper scene lights shall be switched on a switch provided with the chassis.	YES	NO	SPECIFY
	C-UPPER SURFACE MOUNTED 12V SCENE LIGHTS (REAR) Two (2) 12V LED surface-mounted scene lights with chrome bezels shall be supplied, located as follows:	YES	NO	SPECIFY

	<p>- Two (2) on the rear upper body, in the corners, below the warning lights (if equipped) The C-upper scene lights shall be switched on a switch provided with the chassis. The C-upper scene lights shall automatically turn on when the apparatus is in reverse.</p>			
	<p>D-UPPER SURFACE MOUNTED 12V SCENE LIGHTS (LEFT SIDE) Two (2) 12V LED surface-mounted scene lights with chrome bezels shall be supplied, located as follows: - One (1) on the left side upper body, front corner, inboard of warning lights - One (1) on the left side upper body, rear corner, inboard of warning lights The D-upper scene lights shall be switched on a switch provided with the chassis.</p>	YES	NO	SPECIFY
	<p>CROSSLAY AND HOSEBED SPOTLIGHTS The cross lays and hose bed area shall include spotlights used to illuminate the cross lay, hose bed and surrounding areas during nighttime operations. One (1) 550 lumen LED light shall be located at the cross lays, on the top of the front of the body in a best-fit location. The light shall illuminate when the parking brake is set.</p>	YES	NO	SPECIFY
	<p>12V FUSE BLOCK POWER There shall be 12V power provided with fuse blocks. One (1) fuse block with 12 circuits and negative bus with covers are provided. The fuse block shall be installed battery direct, to provide charging power while the vehicle is parked. This shall bypass the master battery switch. The fuse block shall be located as follows: - one (1) inside the cab with the final location to be confirmed.</p>	YES	NO	SPECIFY
	<p>BODY FINISH The body shall not include any painting. The body sides above compartments, between compartments and on end posts (in all vertical body sections) shall include vinyl red wrap. The wrap shall be Carmine Red.</p>	YES	NO	SPECIFY
	<p>EXTERIOR COMPARTMENT FINISH Seven (7) exterior compartments shall include an unpainted but sanded finish.</p>	YES	NO	SPECIFY

	<p>COMMERCIAL VEHICLE REFLECTIVE MARKINGS</p> <p>There shall be reflective markings applied to the completed vehicle in accordance with CMVSS standard requirements. Reflective stickers measuring 0.75" x 4.25" shall be applied as follows:</p> <ul style="list-style-type: none"> - Orange/amber, one (1) each left and right side of the apparatus body side facing at the front of the body, applied horizontally in the rub rails, or vertically on the front post - Red, one (1) each left and right side of the apparatus body side facing at the rear of the body, applied horizontally in the rub rails, or vertically on the rear post - Red, two (2) rear of the apparatus body rear facing on the left and right side of the body, applied horizontally in the rub rails, or vertically on the rear post 	YES	NO	SPECIFY
	<p>REAR BODY CHEVRON STRIPING</p> <p>The rear body shall include reflective chevrons, and shall cover the rear body panels. The chevron striping will be made up of 6" wide reflective and shall be in an inverted "V" pattern, also known as an "A" pattern. Any rear compartments shall not include chevrons.</p> <p>The chevrons shall include the following colors:</p> <ul style="list-style-type: none"> -3M 983-72-6 6" diamond grade red -3M 983-23-6 6" diamond grade fluorescent yellow-green 	YES	NO	SPECIFY
	<p>REFLECTIVE STRIPES</p> <p>The cab and body shall include the following reflective stripes:</p> <ul style="list-style-type: none"> - 4" white reflective stripe <p>The reflective stripe shall be installed in a straight line, without any patterns.</p>	YES	NO	SPECIFY
	<p>RUST PROOFING</p> <p>A rust proofing system shall be applied to the completed fire apparatus prior to delivery to the fire department. The rust proofing system should create a barrier of protection for metals and neutralizes the harmful effects of salt and moisture.</p>	YES	NO	SPECIFY
	<p>APPARATUS EQUIPMENT WEIGHT ALLOCATION</p> <p>The apparatus shall be built to carry the following equipment payload, as per ULC:</p> <ul style="list-style-type: none"> - full tank of fuel - full water and foam tank volume - specified hose load, or full pre-connect hose load plus minimum ULC required hose load if not specified 	YES	NO	SPECIFY

<ul style="list-style-type: none"> - full ladder compliment - 250lbs weight per seating location - 2,500lbs miscellaneous equipment storage for pumper with greater than 250 cubic feet of compartment space 			
<p>FIRE SERVICE LADDERS The following fire service ladders shall be supplied with the apparatus:</p> <ul style="list-style-type: none"> - One (1) 900-A Duo-Safety 24' 2-section extension ladder - One (1) 775-A Duo-Safety 14' roof ladder - One (1) 585-A Duo-Safety 10' attic ladder 	YES	NO	SPECIFY
<p>FLEXIBLE SUCTION HOSE The following fire flexible suction hose shall be supplied with the apparatus:</p> <ul style="list-style-type: none"> - Two (2) 10' x 6" suction hose with long handles 	YES	NO	SPECIFY
<p>PIKE POLES & HOOKS The following pike poles and hooks shall be supplied with the apparatus:</p> <ul style="list-style-type: none"> - One (1) 6' pike pole, HiViz yellow Handle w/Butt End - One (1) 8' pike pole, HiViz yellow Handle w/Butt End 	YES	NO	SPECIFY
<p>WHEEL CHOCKS The following wheel chocks shall be supplied with the apparatus:</p> <ul style="list-style-type: none"> - two (2) black rubber pyramid-style wheel chocks <p>The wheel chocks shall be shipped loose in a compartment.</p>	YES	NO	SPECIFY
<p>TRUCK KIT BASIC EQUIPMENT The following truck kit basic equipment shall be supplied with the apparatus: 90-98-0003</p> <ul style="list-style-type: none"> - one (1) ABC 2.5lb. Buckeye fire extinguisher, with vehicle bracket, shipped loose - one (1) first aid kit - one (1) DOT/triangle kit, shipped loose 	YES	NO	SPECIFY
<p>CERTIFICATION including a certificate number that the Fire Pumper meets the CAN/ULC S515 Standard for Automobile Fire Fighting Apparatus and the NFPA 1901 Standard for Automotive Fire Apparatus, Chapter 5 Pumper.</p>	YES	NO	SPECIFY
<p>HOSEBED COVER – OPTION ONE (1) POLISHED ALUMINUM CHECKER PLATE HOSE BED COVER SHALL BE PROVIDED AND INSTALLED OVER THE MAIN HOSE BED AREA. THIS COVER SHALL BE MANUFACTURED IN TWO (2) SECTIONS, EACH ONE HINGED AT</p>	YES	NO	SPECIFY

	HOSE BODY SIDE SHEET AND CLOSING TO CENTER OF HOSE BED. EACH COVER SHALL HAVE A GAS STRUT DOOR STAY TO HOLD IT IN THE OPEN POSITION. A FIXED CENTER HOSE BED PARTITION SHALL BE PROVIDED AND SHALL BE SLIGHTLY HIGHER THAN THE HOSE BED SIDE WALLS. THE HOSE BED COVER SHALL SLANT DOWNWARD TO EACH SIDE OF THE BODY FOR DRAINAGE. THE ALUMINUM HOSE BED COVER SHALL HAVE A VINYL END FLAP TO COVER THE REAR OF THE HOSE BED.			
	HOSE BED ACCESS - OPTION A HOSE BED ACCESS STEP SHALL BE INSTALLED BELOW THE HOSE BED. THE STEP SHALL BE MANUFACTURED FROM 3/16" 3003-H22 EMBOSSED CHECKER PLATE ALUMINUM AND SHALL MEET THE REQUIREMENTS OF NFPA 1901 LATEST EDITION FOR SLIP RESISTANCE, DEPTH, AND WEIGHT LOAD.	YES	NO	SPECIFY
	FIVE (5) ADJUSTABLE 3/16" ALUMINUM COMPARTMENT SHELVES WITH UPTURNED EDGES SHALL BE PROVIDED. EACH SHELF SHALL BE PROVIDED WITH PLASTIC MATTING.	YES	NO	SPECIFY
	FIVE (5) SET(S) OF FOUR (4) ALUMINUM UNISTRUT SIDE TRACKS SHALL BE PROVIDED FOR INSTALLATION OF ADJUSTABLE SHELVES.	YES	NO	SPECIFY

FT-3 Tenderer's Declarations

- 3.1 The Tenderer declares that it has obtained and read the Contract Documents.
- 3.2 The Tenderer declares that it understands and agrees to be bound by the Contract Documents.
- 3.3 Without limiting the generality of Section FT-3.2, the Tenderer declares that it has, at the time of tendering, fulfilled all of those obligations under the Contract which are required to be fulfilled by the time of tendering.

3.4 The Tenderer declares that all information which it has provided or will provide to the Owner is true.

FT-4 Tenderer's Offer

4.1 The Tenderer offers to do the work in accordance with the Contract Documents.

4.2 The Tenderer offers to do the work and to accept payment at the prices specified in the Schedule of Prices in Section FT-5 of the Tender, in accordance with the Contract Documents.

4.3 The Total Tender Price, based on the Schedule of Prices is:

_____ DOLLARS
(\$_____)

FT-5 Schedule of Prices

5.1 The Schedule of Prices attached is Section FT-5.2 of the Tender.

This offer is made this _____ day of _____, 20____

Signature of Witness
(only if required by TC-1)

Signature of Tenderer
(Corporate Seal if required by TC-1)

Signature of Tenderer
(Second Signature if required by TC-1)

Print Name of Tenderer(s)

FT-5.2 SCHEDULE OF PRICES

CONTRACT NUMBER T-2023-31 Supply and Deliver One (1) Fire Pumping Apparatus 4 Door			
Item	Spec. Code	Item Description	Total
1	SP-C-1	Supply and Deliver One (1) New Pumper Fire Apparatus	
		Less Concessions/Discounts on Item #1	-
		Less Trade-in (as specified in SP-C-1) No Trade in	-
		Total Tender Price (Transfer Amount to FT-4.3 of the Tender)	

- 4.3 All prices to be shown excluding HST.
- 4.3 All prices shall be in Canadian Dollars and must **include FOB to the Port Carling Fire Station, 1 Lee Valley Drive Port Carling ON P0B 1J0**. Total bid price shall include applicable customs duty, excise tax, freight and freight tax, insurance, and all other charges of every kind attributable to the work
- 4.4 The Corporation of the Township of Muskoka Lakes is part of the Broader Public Service of the Province of Ontario and as such may be eligible for concessions (discounts) on vehicles included in the Ministry of Government Services Vendor of Record arrangement OSS-00634452. Any bids shall include such discounts when available.
- 4.5 Trade-in may or may not be exercised at the sole discretion of the Township. The bid prices in this tender shall be binding regardless of whether the trade-in is exercised or not.

SECTION B

FORM OF AGREEMENT

TOWNSHIP OF MUSKOKA LAKES

FORM OF AGREEMENT

This Form of Agreement witnesses that a Contract was made as of the ___ day of _____, 20__.

BETWEEN:

(after this called the "Contractor")

AND:

THE CORPORATION OF THE TOWNSHIP OF MUSKOKA LAKES

(after this called the "Owner")

AND WITNESSES that the Contractor and the Owner agree as follows:

EA-1 The Contractor shall perform the following work:

Contract Number T-2023-31

Described as Supply and Deliver

One (1) New Pumper Fire Apparatus

FA-2 The Contractor shall perform the work in accordance with the Contract Documents listed in the Tender.

FA-3 The Owner shall pay the Contractor in accordance with the prices in the Schedule of Prices in the Tender pursuant to the Contract Documents.

FA-4 The provisions of the Contract Documents shall endure to the benefit of and be binding upon the Contractor and the Owner and their respective heirs, legal representatives, successors and assigns.

IN WITNESS WHEREOF the Contractor and the Owner have executed, in the manner required by law, this Form of Agreement.

Signature Date

Contractor
(Corporate Seal if required by TC-1)

Signature Date

Mayor
The Township of Muskoka Lakes

Signature Date

Contractor
(Second Signature if required by TC-1)

Signature Date

Clerk
The Township of Muskoka Lakes

Signature Date

Witness
(Only if required by TC-1)

SECTION C

SPECIAL PROVISIONS

TOWNSHIP OF MUSKOKA LAKES

SPECIAL PROVISIONS

No. SP-C-1

1.0 SCOPE

- 1.1 In this contract, *Owner, Township or Township of Muskoka Lakes* can be used interchangeably and means *The Corporation of the Township of Muskoka Lakes*.
- 1.2 This tender is for the supply and delivery of one new pumper fire pumper apparatus as specified. All vehicles shall come fully equipped as specified and fully ready for service upon delivery.
- 1.3 The Contractor shall be a factory authorized dealer and be a licensed Motor Vehicle dealer for the Province of Ontario.
- 1.4 The Contractor shall abide by all Federal, Provincial and Municipal Laws, Acts, Ordinances, Regulations, Orders-in-Council and By-laws at all times relative to the performance of the work. This shall include full compliance with the Occupational Health and Safety Act.

2.0 TRADE IN

- 2.1 The trade-in vehicle is as follows:
NO TRADE IN VEHICLE
- 2.2 The trade-in vehicle will be traded in “as is” condition and is not represented as being in road worthy condition, mechanically sound or maintained at any guaranteed level of quality.
- 2.3 The trade-in vehicle will not include the following equipment:

The stated mileage and hours are approximate at the time of tendering and the Contractor acknowledges and accepts that the Owner may continue to use this vehicle until such time that it is traded-in and the stated mileage and hours will be subject to change.

- 2.4 The trade-in vehicle value is to be included on *FT 5.2 Schedule of Prices – Summary* in the Form of Tender. The Township has sole discretion whether to proceed with the trade-in based on the best value to the Township. The trade-in vehicle shall be transferred to the Contractor upon delivery of the new

vehicle if the Township opts to exercise this option.

- 2.5** The trade-in vehicle will be available for viewing Monday to Thursday 7:30 am to 4:00 pm or on Fridays 7:30 am to 11:00 am and shall not occur on any Provincial and/or Federal statutory holidays (including Easter Monday and Civic Holiday). For questions regarding the trade-in and/or to arrange a viewing, please contact Ryan Murrell, Fire Chief via email at rmurrell@muskokalakes.ca.

3.0 PAINT COLOUR

- 3.1** Paint colours shall be as specified in the Schedule of Specifications in the Form of Tender. Final approval for all paint colours must be provided by the Owner prior to ordering. Approval by the Owner will occur within 5 business days of receiving the paint samples from the Contractor. On pages C7, C8, and C9 images of the paint schemes can be seen.

4.0 DELIVERY

- 4.1** Delivery shall be to the **Muskoka Lakes Fire Department Station # 6 Port Carling at 1 Lee Valley Drive, Port Carling, ON, P0B 1J0.** A minimum of 48 hours' notice shall be provided to **Ryan Murrell, Fire Chief by phone at 705 646 5282 or via email at rmurrell@muskokalakes.ca**. Delivery shall occur Monday to Thursday 9:00 am to 4:00 pm local time and shall not occur on any Provincial and/or Federal statutory holidays (including Easter Monday and Civic Holiday).
- 4.2** **Delivery shall occur no later than December 1, 2023.**
- 4.3** An authorized representative of the manufacturer shall provide demonstration of the completed vehicle. One (1) day of orientation shall be provided and performed by a qualified representative of the manufacturer.

5.0 CONCESSIONS AND DISCOUNTS

- 5.1** The Corporation of the Township of Muskoka Lakes is part of the Broader Public Service of the Province of Ontario and as such may be eligible for concessions (discounts) on vehicles included in the Ministry of Government Services Vendor of Record arrangement OSS - 00634452. Any bids shall include such discounts where possible.

6.0 EXTRA WORK, ADDITIONAL WORK AND/OR CHANGES IN THE WORK

- 6.1** No Extra Work, Additional Work and/or Changes in the Work shall be completed without the prior written approval of the Contract Administrator.

- 6.2** Extra Work, Additional Work and/or Changes in the Work must be identified as such by the Contractor when submitting the request for approval and no claims shall be made related to delays by the Contractor in requesting approval to complete Extra Work, Additional Work and/or Changes in the Work.
- 6.3** Despite anything stated elsewhere in the Contract, approval from the Contract Administrator shall be received before completing any Extra Work, Additional Work and/or Changes in the Work. Failure to obtain prior written approval may result in non- payment for this portion of the work.

7.0 INDEMNIFICATION

- 7.1** The contractor shall indemnify and hold the Corporation of the Township of Muskoka Lakes harmless from and against all claims, liability, losses, actions, demands, damages, costs and expenses, including reasonable legal fees, occasioned wholly or in part by any negligence acts or omissions, whether willful or otherwise by the contractor, its agents, officers, employees or other persons for whom the contractor is legally responsible in the performance of this agreement.

8.0 PAYMENT

- 8.1** Payment at the contract price for the tender item shall include full compensation for all labour, equipment and materials required to complete the work as per the tender documents.
- 8.2** The Township shall pay for the Work upon completion and receipt of an itemized invoice sent in by the Contractor to the Accounts Payable Department at ap@muskokalakes.ca. All invoices related to this tender shall reference the tender number and the purchase order number provided.
- 8.3** The Township's standard payment term is net thirty (30) days but failure to submit an invoice with the required information could result in delay of payment.
- 8.4** The Township pays the Harmonized Sales Tax (HST) where applicable and should be shown separately on the invoice. The Contractor shall include the HST Registration Number on all invoices.

